

TABLE 2.—Data furnished by the Canadian Meteorological Service, May 1933

Stations	Altitude above mean sea level Jan. 1, 1919	Pressure			Temperature of the air						Precipitation		
		Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Depart- ure from normal	Mean max. + mean min. ÷ 2	Depart- ure from normal	Mean maxi- mum	Mean mini- mum	Highest	Lowest	Total	Depart- ure from normal	Total snowfall
	<i>Feet</i>	<i>In.</i>	<i>In.</i>	<i>In.</i>	<i>° F.</i>	<i>° F.</i>	<i>° F.</i>	<i>° F.</i>	<i>° F.</i>	<i>° F.</i>	<i>In.</i>	<i>In.</i>	<i>In.</i>
Cape Race, N.F.	99												
Sydney, C.B.I.	48	29.82	29.87	-0.10	46.7	+1.5	58.3	31.7	74	23	3.26		0.0
Halifax, N.S.	88	29.80	29.91	-0.07	49.3	+9	60.5	35.1	78	26	1.84	-1.93	.0
Yarmouth, N.S.	65	29.82	29.89	-0.09	47.6	0	54.9	38.1	71	29	3.89	-0.37	1.0
Charlottetown, P.E.I.	38	29.80	29.84	-0.12	47.6	+7	56.7	40.4	71	32	3.87	+0.30	T
Chatham, N.B.	28	29.75	29.78	-0.17	48.6	+1	61.1	38.6	80	30	1.67	-1.24	.0
Father Point, Que.	20	29.84	29.86	-0.07	44.6	+6	53.2	36.0	67	28	2.31	-0.90	.0
Quebec, Que.	296	29.58	29.90	-0.04	52.3	+2.4	62.9	35.9	80	31	3.80	+1.22	3.0
Doucet, Que.	1,236				45.0		59.0	41.7	77	15	3.43	+0.35	.0
Montreal, Que.	187	29.69	29.89	-0.05	57.1	+2.4	65.9	31.0	80	32	2.47		T
Ottawa, Ont.	236	29.66	29.92	-0.02	56.3	+1.4	66.2	48.3	83	32	7.24	+4.34	.0
Kingston, Ont.	285	29.63	29.94	-0.02	54.6	+1.7	63.1	46.4	78	34	3.63	+1.04	.0
Toronto, Ont.	379	29.53	29.93	-0.05	57.4	+4.2	66.8	46.1	83	36	1.22	-1.46	.0
Cochrane, Ont.	930				47.3		59.7	48.0	80	17	1.12	-1.92	.0
White River, Ont.	1,244	28.65	29.97	+0.02	47.3	+1.6	59.9	35.0	77	18	1.93		.0
London, Ont.	808				56.2		65.9	34.6	84	32	2.25	+0.30	.0
Southampton, Ont.	656	29.23	29.95	-0.01	52.6	+1.9	62.1	46.5	76	31	1.94		.0
Parry Sound, Ont.	688	29.24	29.94	+0.01	53.9	+2.8	64.7	43.0	75	31	4.04	+1.60	.0
Port Arthur, Ont.	644	29.24	29.95	-0.01	49.3	+3.4	57.4	43.1	73	30	2.92	-0.01	.0
Winnipeg, Man.	760	29.06	29.89	-0.07	54.7	+3.1	67.0	41.1	84	27	1.90	-0.25	.0
Minnedosa, Man.	1,690	28.09	29.89	-0.07	52.6	+4.2	64.5	42.4	85	27	5.27	+2.99	.0
Le Pas, Man.	860				49.8		62.5	40.7	78	26	3.46	+2.01	.0
Qu'Appelle, Sask.	2,115	27.60	29.83	-0.11	52.6	+2.8	63.5	37.2	83	24	.12		.0
Moose Jaw, Sask.	1,759				53.8		65.2	41.7	88	30	3.90	+2.25	.0
Swift Current, Sask.	2,392	27.30	29.80	-0.12	53.4	+2.7	64.9	42.5	94	28	5.22		.0
Medicine Hat, Alb.	2,365	27.33	29.80	-0.09	53.2	-9	63.8	41.8	85	29	2.20	+0.44	.0
Calgary, Alb.	3,540	26.17	29.83	-0.05	48.5	-5	58.9	42.6	74	29	2.14	+0.83	.0
Banff, Alb.	4,521							38.0			2.08	+0.31	4.4
Prince Albert, Sask.	1,450	28.36	29.93	-0.02	53.5	+5.9	64.7	42.2	78	28	3.25	+1.99	.0
Battleford, Sask.	1,592	28.15	29.88	-0.04	53.3	+2.3	65.0	41.7	87	27	1.43	-0.19	.0
Edmonton, Alb.	2,150	27.59	29.86	-0.02	51.8	+1.0	64.0	42.2	77	30	1.98	+0.43	5.5
Kamloops, B.C.	1,262	28.57	29.85	-0.04	54.9	-4.2	65.1	39.7	78	39	1.04	-0.20	.0
Victoria, B.C.	230							44.8					
Barkerville, B.C.	4,180												
Estevan Point, B.C.	20				46.9		51.4	42.5	55	38	10.47		.0
Prince Rupert, B.C.	170				48.2		55.5	40.9	63	36	5.23		.0
Hamilton, Ber.	151	29.92	30.08	+0.02	71.9	+2.5	77.0	66.7	83	62	2.74	-1.92	.0

LATE REPORTS FOR APRIL 1933

Qu'Appelle, Sask.	2,115	27.67	29.96	-0.03	35.2	-2.2	44.5	25.9	69	8	2.10	+1.05	19.5
Swift Current, Sask.	2,392	27.38	29.93	-0.03	39.0	-2.3	49.5	28.5	75	16	1.05	+0.12	6.7
Battleford, Sask.	1,592	28.25	30.02	+0.05	37.7	+5	48.0	27.4	75	17	1.30	+0.83	11.6
Edmonton, Alb.	2,150	27.68	29.99	+0.10	38.6	-1.3	49.3	27.9	69	15	.72	-0.16	3.9
Kamloops, B.C.	1,262	28.66	29.96	+0.03	47.6	-1.3	58.6	36.6	75	26	.22	-0.17	.0
Estevan Point, B.C.	20				44.6		50.1	39.0	60	30	4.50		.0
Prince Rupert, B.C.	170				41.9		48.7	35.1	56	29	7.44		2.0
Hamilton, Ber.	151	29.86	30.02	-0.03	66.5	+2.6	71.4	61.6	76	55	7.28	+3.10	.0

SEVERE LOCAL STORMS, MAY 1933

[Compiled by Mary O. Souder]

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Salem, Ark., vicinity of, northeastward to the Missouri line.	1	1:30-2:30 p.m.	200-867	3	\$30,000	2 tornadoes	17 persons injured; property damaged	Official, U.S. Weather Bu- reau.
Oregon County, Mo., Southwestern portion.	1	2:15 p.m.			70,000	Tornado	22 persons injured; damage to property and crops.	Do.
Aurora, Joliet, Payson, Camp Point, Baylis, Golden, Liberty, and Timewell, Ill.	1	2:30-4 p.m.			10,000	Hail	Poles down, buildings damaged	Do.
Carrollton, Greenfield, Roodhouse, White Hall and vicinity, Ill.	1	3 p.m.			5,000	Wind and hail	Poles and trees blown down; buildings damaged; minor garden losses.	Do.
Fulton and Peoria Coun- ties, Ill.	1	3:30 p.m.	300	4	1,025,000	Tornado and hail	30 persons injured; property damaged; path 12 miles long.	Do.
Calhoun, Ark., 6 miles southeast.	1	4 p.m.	19	6	5,000	Tornado	2 persons injured; property damaged	Do.
Arcadia, La.	1	do.	880	6	200,000	do.	50 persons injured; 98 homes damaged and 60 de- molished; path 5 miles long.	Do.
Minden, La., 4 miles west-southwest.	1	do.	440-880	23	1,250,000	do.	400 persons injured, and 1200 homeless; 500 or more homes destroyed; path 6 miles long.	Do.
Peru, La Salle, Tonica, Granville and vicinity, Ill.	1	4:45 p.m.			2,000	Wind and hail	Poles down and buildings damaged	Do.

SEVERE LOCAL STORMS, MAY 1933—Continued

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Herrin, to West Frankfort, Ill.	1	8 p.m.	1		\$40,000	Wind	4 persons injured; trees uprooted; buildings unroofed.	Official, U.S. Weather Bureau.
Lake Village, Ark.	1	12 p.m.		3	50,000	Tornado	12 persons injured; property damaged.	Do.
Clay, Tippecanoe, Carroll, and Cass Counties, Ind.	1	P.m.		1	25,000	Wind	Property damaged.	Do.
Moline, Ill.	1				25,000	do	Damage to hangars, airport equipment, and plane.	Do.
Central and northern Illinois and Chicago.	1			4	500,000	Tornado	Scores injured; property damaged.	Do.
Tangipahoa and Tammany Parishes, La.	1				50,000	Heavy hail	Loss to strawberry crop.	Do.
Flint, Mich. (east of)	1-2	P.m.			50,000	Tornadoic winds	Heavy damage along Dort Highway for about 9 miles; 2 persons injured; livestock killed; damage to buildings.	Do.
Lower peninsula and Livingston, Ionia, Gratiot, Barry, and Calhoun Counties, Mich.	1-2			1	4,000	Rain, wind, electrical.	Property damage and loss to livestock.	Do.
Rock Hill (near), S.C.	2	P.m.		1		Thunderstorm	Man killed by lightning.	Do.
Elliottville, N.Y.	2			1	22,000	Electrical, heavy rain.	Washout delayed train service; several places struck by lightning.	Do.
Sylvester - McCaulley, Tex.	3	4:30 p.m.	100		15,000	Tornado	Several houses demolished; poultry and livestock killed; path 150 yards long.	Do.
Abilene - Watsonville, Tex.	3	4:50 p.m.	100-440		10,250	do	Telephone poles and trees blown down; few houses destroyed; 2 persons injured; path 7 miles long.	Do.
Spur, Tex.	3		50		300	Tornado	2 small buildings damaged; window glass broken.	Do.
Houston (near) Tex.	4	10:30 a.m.			15,150	Hail	Window panes in many greenhouses broken.	Do.
Endora, Ark.	4	4 p.m.			50,000	Tornado	Property damaged; path wide and 3 miles long.	Do.
Bosco, La.	4	4:50 p.m.			25,000	Wind and hail	Several small houses destroyed.	Do.
Tallulah, La., 2 miles east.	4	6:30 p.m.	500	1	35,000	Tornado	15 persons injured; considerable damage to timber; path 10 miles long.	Do.
Calico Rock, Ark.	4	p.m.			500	Tornado and hail	Property damaged; path narrow and 6 miles long.	Do.
Aledo-Leedey, Okla.	4	do			8,500	Heavy hail	Road between Leedy and Rhea blocked by hailstone drifts 4 feet deep; wheat and other crops destroyed; roofs and automobile tops damaged; path 11 miles long.	Do.
Edna-Demopolis, Ala.	5	12:30 a.m.	440	4	60,000	Tornado	30 persons injured; severe property damage; crop loss slight; path 35 miles long.	Do.
Brent, Coalmont and Helena, Ala.	5	2:30 a.m.	50-1,000	21	253,900	do	196 persons injured; damage to crops, timber, and property; path 70 miles long.	Do.
Anderson to Belton, S.C.	5	2:30 p.m.	100-500	19	350,000	do	100 persons injured; 60 families rendered homeless; path 45 miles long; greatest damage in Belton.	Do.
Jefferson County, Ala.	5	3 a.m.	100		4,000	do	1 person injured; property damaged.	Do.
Chesterfield, S.C.	5	3-4 p.m.	880		20,000	Thundersquall	20 persons injured; 10 dwellings and 15 barns wrecked; path 8 miles long.	Do.
Chester, S.C. (10 miles southeast).	5				2,000	do	Damage mostly to farm buildings.	Do.
Oktibbeha and Lee Counties, Miss.	6	1-2 a.m.			9,000	Tornadoic winds	8 persons injured; property damaged.	Do.
Cairo, Ill.	7	11:20 a.m.			6,550	Wind	Telephone and electric light poles blown down; smokestacks at the plants of the Cairo River and Rail Warehouse and the Missouri Cotton Oil Company blown down.	Do.
Plymouth, Ida, Calhoun, Webster, Humboldt, Wright, and Polk Counties, Iowa.	7	2 p.m.			35,000	Tornadoes	1 person injured; property damaged.	Do.
Floyd (near) to Bald Knob, Ark.	7	3 p.m.			1,000	Tornado and hail	Damage to trees and buildings; path narrow.	Do.
Harrisburg (8 miles north of), to Truman, Ark.	7	4 p.m.	433		25,000	do	3 persons injured; property damaged.	Do.
Covington (near), Tenn.	7	4:36 p.m.		6	75,000	Tornado	20 persons injured; damage to farmhouses and buildings.	Do.
Luverne, Iowa.	7	5:30 p.m.			500	do	Elevator blown down and several small buildings destroyed.	Do.
Fairfax-Walterboro, S.C.	7	10-11:30 p.m.	15		88,000	Thundersquall and hail.	Buildings and crops damaged; path 30 miles long.	Do.
Southern Craighead and northern Poinsett Counties, Ark.	7					Wind	Considerable damage to fruit trees, crops, and buildings.	Do.
Judsonia, Ark.	7				2,000	do	Loss to strawberry crop.	Do.
Newman, Griffin, and Jackson, Ga., and vicinity.	7	P.m.	17		50,000	Rain and hail	Damage to crops and buildings; several washouts occurred.	Do.
Bondurant - Maxwell, Iowa.	7		200		3,000	Tornado	Path 12 miles long; no other details.	Do.
Eagle Grove, Iowa.	7				5,000	do	Barn and other farm buildings destroyed; 500 chickens killed.	Do.
Choteau County, Mont.	7			1		Severe blizzard	Large loss to livestock, especially sheep in eastern districts.	Do.
Sycamore and Cloverdale, Ga.	8		34			Tornadoic winds	Property damaged.	Do.
Springfield, Ill.	9	4:45-6:13 a.m.	12-3		50,000	Electrical and hail	Damage to greenhouses and automobile tops, little damage to trees and vegetation; path 9 miles long.	Do.
Dayton, Ohio, 1 mile northeast.	9	6:37 a.m.	440-880		1,000,000	Tornado	Damage to wires, poles and cables; trees uprooted; many persons injured; hundreds homeless; path 2 miles long.	Do.
Versailles and Rising Sun, Ind.	9	5:15-5:30 p.m.	150-300		10,000	do	Property damaged.	Do.
Dale-Norris City, Ill.	9	6 p.m.	100-220	2	5,000	do	3 persons injured; property damaged; path 8 miles long.	Do.
Monroe, Russell, Adair, and Metcalf Counties, Ky.	9	8:30 p.m.	250-1,780	36	245,000	do	87 persons injured; path 9 miles long.	Do.
Lebanon near Tenn.	9	10:30 p.m.		2		do	6 persons injured; no details.	Do.
Overton County, Tenn.	9	12 p.m.		33	100,000	do	100 persons injured; about 30 houses blown away; roads blocked by debris; chickens found with the feathers blown off.	Do.

1 Miles instead of yards.

SEVERE LOCAL STORMS, MAY 1933—Continued

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Warren, Tipton, Hamilton, Madison, Delaware, Randolph, and Wayne Counties, Ind.	9		¹ ½-1½		\$88,500	Tornado	Property damages	Official, U.S. Weather Bureau.
Byrds town, Tenn.	9			2		do.	Many persons injured; no details.	Do.
Byron City, Robbinsville, Forest City, Canton, and Ellenboro, N.C.	10	3:30-4:30 a.m.				Electrical; rain and wind.	Power and telephone wires disabled; houses flooded and otherwise damaged.	Do.
Ingold, N.C.	10	8:30 a.m.				Cyclonic wind.	Trees uprooted and property damaged.	Do.
Rushville-Browning, Ill.	10	3:15 p.m.	¹ 2½		10,000	Hail.	No details; path 10 miles long.	Do.
Brownwood (near) Tex.	10	7:10 p.m.	200	4	250,000	Tornado.	7 persons injured; property damages; path 7 miles long.	Do.
North Carolina, southeastern portion.	10		¹ 1-5		60,000	Thundersqualls.	10 persons injured; damage mostly from floods; path 20 miles long.	Do.
Waurika, Okla., vicinity of.	11	5 p.m.	1,320		800	Hail.	Loss to property and crops; path 2 miles long.	Do.
Walker County, Ga.	11	P.m.				Hail and rain.	Window panes broken; crops and gardens damaged considerably.	Do.
Bourbon County, Kans.	12	1 p.m.	440-880		15,000	Tornado.	1 person seriously injured; some houses damaged; barns and outbuildings demolished; path 25-30 miles long.	Do.
Lone Oak-Needmore, Tenn.	12	do.				do.	1 person injured; small damage to farm buildings.	Do.
Tulsa (near), Okla.	12	5 p.m.	220	5	15,000	do.	5 persons killed in the collapse of a house; 11 persons injured as result of storm.	Do.
Centrahoma, Okla., and vicinity.	12	8:30 p.m.	¹ 2			Hail.	Much damage to crops; path 9 miles long.	Do.
Baylis to Perry, Ill.	12	11 p.m.	440-880		10,000	Tornado.	2 persons injured; property damaged; path 20 miles long.	Do.
Buffalo, N.Y., and vicinity.	12					Rain, electrical.	Viaducts flooded causing delay of traffic and street car service; farm lands in western New York flooded.	Do.
Springfield, Mo.	12-13					Rain and flood.	Streams swollen; farm lands badly washed; traffic closed over numerous roads, widespread damage by local flooding.	Do.
Bentonville, Ark.	13	4 a.m.	333		6,000	Tornado.	Property damage; path 5 miles long.	Do.
Xenia, Ohio.	13	5:50 a.m.	440-880	1	50,000	Severe wind.	Many persons injured; more than 75 houses demolished; path 2 miles long.	Do.
Cincinnati, Ohio, and vicinity.	13	A.m.				Thundersquall, excessive rain.	Streets and basements flooded; debris carried down hillside by rushing waters obstructing traffic for several hours in many sections; truck gardens ruined; farm lands flooded.	Do.
Franklin, Ark.	13	7:30 p.m.	333	2	30,000	Tornado.	12 persons injured; property damaged; path 3 miles long.	Do.
Pocahontas, Ark.	13	9:10 p.m.	433	2	10,000	do.	14 persons injured; property damaged.	Do.
Harrison, Ark.	13					do.	Electric wires blown down; considerable property damaged.	Do.
Naylor (near), Mo.	13			1		do.	A number of houses and farms destroyed; 4 persons injured.	Do.
Kuna, Idaho.	15	6-7 p.m.	1,760		8,000	Hail.	Damage to crops, gardens, and fruit; path 4 miles long.	Do.
Monticello, Iowa.	15					Rain and hail.	Wagon bridge washed out; grades of 2 highway bridges, automobile tops, and skylights damaged.	Do.
Bath County, Ky.	15		67-440		100,000	Tornadoic winds.	No details.	Do.
Granville County, Northampton, N.C.	15				10,000	Hail and wind.	Damage mainly to buildings.	Do.
La Crosse, Wis. (3 miles south).	16	2:30 p.m.			10,000	Hail.	Damage to prospective fruit crop.	Do.
Florence, Kans. (5 miles west).	17	7 p.m.	¹ 3		6,500	Wind and hail.	Small buildings wrecked or damaged; window panes broken and crops destroyed; path 3 miles long.	Do.
Shawnee County, Kans.	17	3:30 p.m.	880		200	Tornado.	Telephone wires damaged; old barn and small buildings demolished.	Do.
Dickinson County, Kans.	17	5-6 p.m.	¹ 10		120,000	Wind and hail.	Damage to crops, windows and automobiles; path 12 miles long.	Do.
Grangeville, Idaho (3 miles northwest).	17	6 p.m.	100			Tornado and hail.	Damage small, but not estimated; path 4 miles long.	Do.
Pottawatomie and Marshall Counties, Kans.	17	do.	880		20,000	Tornado.	Damage to telephone lines and farm buildings; path 11 miles long.	Do.
McPherson County, Kans.	17	6-8 p.m.	¹ 10		100,000	Heavy hail.	Large loss to crops in northern part of county; roofs, greenhouses, windows and automobiles damaged; path 30 miles long.	Do.
Fort Stockton, Tex., and vicinity.	17	7 p.m.	¹ 4		10,000	Severe hail.	Roofs, windows, trees and gardens damaged; path 5 miles long.	Do.
Lyon County, Kans.	17	7:45 p.m.	150		10,000	Tornado and thundersqualls.	Livestock killed and property damaged; path 4 miles long.	Do.
Williamsville-Broadwell, Ill.	17	8 p.m.	¹ 4		12,000	Hail.	Considerable loss to crops; damage to roofs and glass; path 12 miles long.	Do.
Reno County, Kans.	17	9 p.m.	¹ 10		70,000	do.	Chief damage to orchards and gardens; path 20 miles long.	Do.
Jefferson, Iowa.	17				1,000	do.	Glass and automobile tops damaged.	Do.
Kiro, Reserve, Morrill, and Seneca, Kans.	18	P.m.				Tornado winds.	Telephone lines down; several farm buildings destroyed; few persons injured.	Do.
Kandiyohi, Meeker, and McLeod Counties, Minn.	18					do.	Several persons injured; property loss considerable.	Do.
Yellowstone County, Wyo.	18		¹ 2½		5,000	Heavy hail.	Loss to poultry and gardens.	Do.
Lapeer County, Mich.	19	3 p.m.	220		100,000	Tornado.	Telephone and power lines, houses and barns damaged; 3 persons injured; 10 trees left standing in orchard of 70.	Do.
Eastman, Wis., and vicinity.	19	10:45 p.m.	¹ 2-3		1,000	Heavy rain and wind.	Damage to buildings.	Do.
Homer, Jewell, and Ellsworth, Iowa.	19				75,000	Tornado.	3 foot bridges washed out; much damage to highways.	Do.
Milwaukee, Washington, Grant, Iowa, Crawford, Dane, and Green Counties, Wis.	19-20				29,000	Heavy rains and floods.	Property and crops damaged.	Do.
Whitesville and King City, Mo.	20	2 p.m.			10,000	Tornado.	Property damaged.	Do.

¹ Miles instead of yards.

SEVERE LOCAL STORMS, MAY 1933—Continued

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Taylor, Ark.	20	4 p.m.				Tornado	Considerable damage to timber; path very narrow.	Official, U.S. Weather Bureau.
Reading, Pa., and vicinity.	20	5:30-6 p.m.	14		\$750,000	do.	6 persons seriously injured; large church badly damaged; many buildings unroofed; crop damage severe.	Do.
Adams, Pike, Green, Macoupin, and Montgomery Counties, Ill.	20	6-10 p.m.				Electrical and wind.	Wires and buildings damaged; 1 person injured.	Do.
Bison (near), Kans.	20	P.m.			2,000	Tornadoic winds.	Damage only to small buildings.	Do.
Berks, Bucks, Adams, York, and Northampton Counties, Pa.	20	do.		2	1,000,000	Electrical and wind.	Lighting and telephone service crippled; trees uprooted, property damaged.	Do.
Western and southwestern Kansas.	20-21					Tornadoes.	Property damaged.	Do.
Lake Alice, N.Mex.	22	8 a.m.-12:30 p.m.				Wind.	Light and power lines damaged; crops blown out; many buildings unroofed.	Do.
Rapid City, S.Dak., and vicinity.	22	3:54-4:06 p.m.			50,000	Wind and hail.	Poles blown down; windows broken; signs destroyed; roofs damaged.	Do.
Finney County, Kans.	22	4:25 p.m.	200		25,000	Tornado.	Telephone lines and farm buildings damaged; 10 persons injured; path 20 miles long.	Do.
Rochford, S.Dak., in the Black Hills (3-4 miles west).	22	5 p.m.	880			Tornado and hail.	Telephone wires wrapped around poles; buildings destroyed; timbers levelled to ground; 8 persons injured; path 6 miles long.	Do.
Bison to Lemmon, S. Dak.	22	5:25 p.m.			4,200	Tornado.	Damage estimated for Bison, elsewhere 1 barn and several small buildings destroyed.	Do.
Liberal and Dodge City, Kans.	22	5:25-6:55 p.m.		5	1,000,000	do.	Telephone communication wrecked and business paralyzed; 150 persons injured; 1 person missing; many homes demolished; path 65 miles long.	Do.
North Platte, Nebr. (10 miles west).	22	5:30-6:30 p.m.	880		100,000	do.	Several persons injured.	Do.
Bainville, Mont.	22	6-6:15 p.m.	120		50,000	do.	30 persons injured; the principal business structures damaged or wrecked consisted of a cafe, hotel, filling stations, warehouses and grain elevators; little or no damages to residences.	Do.
Tryon, Nebr.	22	6:20 p.m.	1,250	8	40,000	do.	10 persons injured.	Do.
Nebraska, central and western portions.	22	6-9 p.m.	1,200	2	200,000	High winds.	Telephone and power poles and trees blown down; windmills, outbuildings and barns destroyed; poultry killed.	Do.
Smith County, Kans.	22	7:30-8 p.m.			100,000	Wind.	Telephone service crippled; many farm buildings wrecked or blown away.	Do.
Rooks County, Kans.	22	7:40 p.m.			40,000	do.	Many small buildings damaged or destroyed; oil derricks blown down.	Do.
Valentine, Nebr., and vicinity.	22	8-8:35 p.m.			25,000	Severe wind.	Telephone and electric wires blown down; 2 airplanes and hangar completely demolished; barn blown away.	Do.
Pierre, S.Dak.	22	8:30 p.m.				Wind.	Poles, trees, and fences blown down; windows broken; buildings damaged.	Do.
Eastern Colorado.	22	P.m.				Gale and rain.	Telephone and light poles blown down; scores of persons injured; tree uprooted; 15 empty freight cars derailed at Moffat, 23 miles west of Denver; amount of damage not estimated.	Do.
Rawlins, Kans.	22	do.			10,000	Tornado.	Buildings damaged; path 21 miles long.	Do.
Sheridan, Graham, and Norton Counties, Kans.	22	do.	120		13,000	Tornadoic winds.	Few residences and many farm buildings damaged; path 30 miles long.	Do.
Bainville, Mont.	22	do.				Tornado.	12 persons injured; 10 buildings damaged or demolished.	Do.
Yankton to Sioux Falls, S.Dak.	22-23	11 p.m.-1 a.m.		1		Wind.	Poles, trees, a residence, several small buildings and a few barns blown down.	Do.
Beaver Creek watershed, Wibeaux County, Wyo.	22-23					Rain and flood.	Numerous fields washed out; fences uprooted and scores of sheep drowned; loss not estimated.	Do.
Brown County, Kans.	23	1:10 a.m.	100		300	Tornadoic winds.	Wires blown down; farm buildings damaged; path 5 miles long.	Do.
Wisconsin Rapids, Wis. (10 miles southwest).	23	3:30 p.m.	300		75,000	Tornado.	Path of greatest destruction 75-80 feet wide and 15 miles long; a farmer blown 100 feet and slightly injured.	Do.
Western Wisconsin.	23	P.m.			150,000	Tornadoic winds.	Roofs blown off, barns and outbuildings demolished; 1 person injured.	Do.
Des Moines, Iowa.	23			1		Wind.	Branch of tree fell, killing a child.	Do.
Black Hills Section, S.Dak.	23			1		Flood.	Telephone and telegraph wires blown down; travel at standstill; 300 feet of railroad track washed out in vicinity of Deadwood; boy drowned.	Do.
Stanton County, Kans.	24	10 a.m.	440		500	Heavy hail.	Only few growing crops or damage would have been greater; path 2 miles long.	Do.
Kearney County, Kans.	24	11 a.m.	12		1,000	do.	Damage to crops; path 9 miles long.	Do.
Clovis, N.Mex.	24	2 p.m.	112			Hail.	10 percent damage to wheat crop in vicinity.	Do.
Grant County, Kans.	24	2:30 p.m.	17		5,000	Heavy hail.	Drifts of hailstones across highways reported a foot deep delaying traffic; small crop damage; path 14 miles long.	Do.
Camden and Moorestown, N.J.	24	4-6 p.m.			1,000,000	Tornadoic winds.	All power lines down; large trees uprooted and many buildings unroofed; large movie studio demolished; airplane damaged.	Do.
Philadelphia, Pa.	24	4:15-6:32 p.m.		6	50,000	Electrical and wind.	14 persons seriously injured; wire service crippled; windows broken and buildings damaged.	Do.
Pawnee and Hodgeman Counties, Kans.	24	P.m.			10,000	Heavy hail.	Hailstones drifted 6 feet deep in places; all growing crops destroyed in path; about 45 head of cattle killed, partly by drowning and partly by freezing; path 9 miles long.	Do.
Corpus Christi (near), Tex.	25	12:30 p.m.				Tornado.	Several small sailing vessels overturned and were sunk or damaged.	Do.
Newberry (near), S.C.	25	3 p.m.	440		1,100	Thundersquall.	Damage to tenant houses, outbuildings and barns; path short.	Do.
Kearney County, Kans.	25	P.m.	1		6,000	Heavy hail.	All growing crops destroyed; path 15 miles long.	Do.
Pomona, Mo.	25			2	2,000	Tornado.	2 persons injured; property damaged.	Do.
Lapeer County, Mich., southeastern portion.	26	3 p.m.	34-217		45,000-100,000	Tornado and heavy rain.	Damage to farm buildings, orchards and other property; path 50 miles long.	Do.
Richmond, Va.	26	6:34-6:58 p.m.	1		8,000	Thundersquall.	Overhead wire systems torn down; roofs ripped off; many trees broken or blown down.	Do.

1 Miles instead of yards.

SEVERE LOCAL STORMS, MAY 1933—Continued

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Greenville, S.C.-----	27	12:25-1:55 p.m.	-----	-----	\$500	Thundersquall....	Buildings damaged.....	Official, U.S. Weather Bureau.
Logan, Thomas, and Gove Counties, Kans.	27	3 p.m.-----	1 4	-----	50,000	Heavy hail.....	Damage to corn, barley, gardens and trees; most severe part of storm at Oakley and Campus; path 10 miles long.	Do.
Walterboro, S.C.-----	27	4 p.m.-----	-----	-----	3,000	Thundersquall....	2 persons injured; damage to 2 dwellings and several outbuildings.	Do.
Northeastern Cherry County, Nebr.	27	4:30-5:30 p.m.	1 10	-----	-----	Heavy hail.....	Little damage owing to crops not being far enough advanced; path 25 miles long.	Do.
Nemaha County, Kans..	27	P.m.-----	1 2	-----	-----	do.....	Crops destroyed; poultry, horses, and mules killed; path 20 miles long; loss not estimated.	Do.
Montgomery, Kans.-----	28	P.m.-----	1 10	-----	-----	Heavy hail.....	Roofs, barns, and other buildings demolished; windows smashed, crops ruined; livestock injured and poultry killed; path 15 miles long.	Do.
Connecticut, southern position.	28	-----	-----	-----	-----	Electrical.....	Telephone and electric cables damaged; 5 trolley cars, church steeple, and tenement house struck by lightning.	Do.
New Hope, Tex.-----	29	12:20 a.m.	-----	1	300	Wind.....	Several buildings damaged.....	Do.
Ulysses, Kans.-----	29	-----	-----	-----	-----	Hail.....	Hail a foot deep on highway, delaying traffic.....	Do.
Madison (near), Fla.-----	30	4 p.m.-----	-----	-----	1,000	Wind and hail.....	Loss in tobacco crop; timber blown down.....	Do.
Honesdale, Pa.-----	31	P.m.-----	-----	-----	35,000	2 severe thunderstorms.	Damage chiefly from flooding; rainfall heaviest in years.	Do.
Burdett, Kans. (south of).	31	-----	-----	-----	-----	Wind and hail.....	Cattle and chickens killed; wheat total loss.....	Do.
Felix River headwaters.	31	3:45 p.m.	1 3	-----	10,000	By hail.....	200 cattle killed, \$1,000 crop loss.....	Clement Hendricks.

¹ Miles instead of yards.

